



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE		DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/653,528 09/02/2003		2003	Brett P. Monia	ISPH-0769	3364		
27180	7590	03/29/2006		EXAM	EXAMINER		
	MACEUTIC.	MCGARR	MCGARRY, SEAN				
	D, CA 92008			ART UNIT	PAPER NUMBER		
				1635			
				DATE MAILED: 03/29/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	Application No. Applicant(s)							
	Office Action Comment	10/653,52	28	MONIA ET AL.						
	Office Action Summary	Examiner		Art Unit	-					
		Sean R. M	lcGarry	1635						
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).										
Status										
1)□	Responsive to communication(s) filed on) .								
'=	This action is FINAL . 2b)⊠ This action is non-final.									
′=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is									
,—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.									
Disposition of Claims										
4)⊠	∑ Claim(s) <u>1-13</u> is/are pending in the application.									
	4a) Of the above claim(s) is/are withdrawn from consideration.									
5)	5) Claim(s) is/are allowed.									
6)⊠	Claim(s) <u>1-13</u> is/are rejected.									
7)	Claim(s) is/are objected to.									
8)□	8) Claim(s) are subject to restriction and/or election requirement.									
Applicati	on Papers									
9)□	The specification is objected to by the Exa	aminer.								
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).										
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).										
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.										
Priority u	inder 35 U.S.C. § 119									
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:										
	1. Certified copies of the priority documents have been received.									
	2. Certified copies of the priority documents have been received in Application No									
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).									
* See the attached detailed Office action for a list of the certified copies not received.										
Attachmen	t(s)									
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date										
3) 🛛 Inform	e of Draftsperson's Patent Drawing Review (PTO-94 nation Disclosure Statement(s) (PTO-1449 or PTO/97 r No(s)/Mail Date <u>9/2/03</u> .			ormal Patent Application (PTO-152)						

Application/Control Number: 10/653,528

Art Unit: 1635

DETAILED ACTION

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-13 rejected under 35 U.S.C. 102(b) as being anticipated by Monia et al [US 6040,178].

Monia et al disclose SEQ ID NO: 37 which is an antisense oligonucleotide. Monia disclose all of the recited modifications to sugar, nucleobase and internucleoside backbone recited in the instant claims. Furthermore Monia et al disclose the use of the same recited carriers and diluents recited in the claims where the antisense SEQ ID NO: 37 of Monia et al is also disclosed as used in cells to inhibit expression of its target nucleic acid. SEQ ID NO: 37 comprises a local similarity of 94.1% oat the recited target region of claim 1. With this structure the oligonucleotide of SEQ ID NO: 37 meets all of the structural requirements of the instant invention (see age 14 of the instant specification for example). (See attached sequence alignment).

A REJECTION UNDER 35 U.S.C. 102/103 CAN BE MADE WHEN THE PRIOR ART PRODUCT SEEMS TO BE IDENTICAL EXCEPT THAT THE PRIOR ART IS SILENT AS TO AN INHERENT CHARACTERISTIC

Where applicant claims a composition in terms of a function, property or characteristic and the composition of the prior art is the same as that of the claim but the function is not explicitly disclosed by the reference, the examiner may make a rejection under both 35 U.S.C. 102 and 103, expressed as a 102/103 rejection. "There is nothing inconsistent in concurrent rejections for obviousness under 35 U.S.C. 103 and for anticipation under 35 U.S.C. 102." *In re Best*, 562 F.2d 1252, 1255 n.4, 195 USPQ 430, 433 n.4 (CCPA 1977). This same rationale should also apply to product, apparatus, and process claims claimed in terms of

Art Unit: 1635

function, property or characteristic. Therefore, a 35 U.S.C. 102/103 rejection is appropriate for these types of claims as well as for composition claims.

A REFERENCE TEACHING PRODUCT APPEARING TO BE SUBSTANTIALLY IDENTICAL IS MADE THE BASIS OF A REJECTION,

AND THE EXAMINER PRESENTS EVIDENCE OR REASONING TENDING TO SHOW INHERENCY, THE BURDEN SHIFTS TO THE

APPLICANT TO SHOW AN UNOBVIOUS DIFFERENCE

"[T]he PTO can require an applicant to prove that the prior art products do not necessarily or inherently possess the characteristics of his [or her] claimed product. Whether the rejection is based on inherency' under 35 U.S.C. 102, on prima facie obviousness' under 35 U.S.C. 103, jointly or alternatively, the burden of proof is the same...[footnote omitted]." The burden of proof is similar to that required with respect to product-by-process claims. *In re Fitzgerald*, 619 F.2d 67, 70, 205 USPQ 594, 596 (CCPA 1980) (quoting *In re Best*, 562 F.2d 1252, 1255, 195 USPQ 430, 433-34 (CCPA 1977)).

MPEP 2112.01:

PRODUCT AND APPARATUS CLAIMS X WHEN THE STRUCTURE RECITED IN THE REFERENCE IS SUBSTANTIALLY IDENTICAL TOTHAT OF THE CLAIMS, CLAIMED PROPERTIES OR FUNCTIONS AREPRESUMED TO BE INHERENT

Where the claimed and prior art products are identical or substantially identical in structure or composition, or are produced by identical or substantially identical processes, a prima facie case of either anticipation or obviousness has been established. In re Best, 562 F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977). AWhen the PTO shows a sound basis for believing that the products of the applicant and the prior art are the same, the applicant has the burden of showing that they are not.≅ *In re Spada*, 911 F.2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990). Therefore, the prima facie case can be rebutted by evidence showing that the prior art products do not necessarily possess the characteristics of the claimed product. *In re Best*, 562 F.2d at 1255, 195 USPQ at 433.

It is noted that SEQ ID NOS: 32, 33, and 37 where searched to facilitate the search of the target region recited in claim 1 and oligonucleotides that consist of these sequences are free of the prior art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sean R. McGarry whose telephone number is (571) 272-0761. The examiner can normally be reached on M-Th (6:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Wang can be reached on (571) 272-0811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sean R McGarry Primary Examiner Art Unit 1635

```
Sequence 14, Appl
Sequence 3, Appli
Sequence 3, Appli
                                                                                                                                                                                                                                                             APPLICANT: Brett P. Monia
APPLICANT: Brett P. Monia
APPLICANT: Lex M. Cowsert
TITLE OF INVENTION: ANTISENSE MODULATION OF SMADS EXPRESSION
FILE REPERENCE: TTS-.057
CURRENT APPLICATION NUMBER: US/09/256,492
CURRENT FILING DATE: 1999-02-23
NUMBER OF SEQ ID NOS: 47
LENGTH: 18
                                                                           US-09-834-291-14
US-08-884-029-3
US-09-155-152-3
                                                                                                                                                 ALIGNMENTS
                                                                                                                                                                                                                   Sequence 37, Application US/09256492
Patent No. 6040178
GENERAL INFORMATION:
2 14:39:42 2006
                                                                            ო ო ო
                                                                            222
                                                                           61.0
61.0
61.0
                                                                                                                                                                                                         US-09-256-492-37
                                                                           12.2
12.2
12.2
 Thu Mar
                                                                           c 98
c 100
```

ö Gaps ö Length 18; 1; Indels Score 15.4; DB 3; Pred. No. 9.1e+02; 0; Mismatches 1; ; OTHER INFORMATION: Antisense Oligonucleotide US-09-256-492-37 2 AAAAGCTTCTCCAACAC 18 Query Match
Best Local Similarity 94.1%;
Matches 16; Conservative (셤 ò

TYPE: DNA ORGANISM: Artificial Sequence PEATURE:

```
25, Application US/08495209
5. 6476198
```

```
I: Kang, Angray S.
INVENTION: Multispecific and Multivalent
INVENTION: Antigen-Binding Polypeptide Molecules
                                                                                           The Scripps Research Institute
4666 No. 6476198th Torrey Pines Road, TPC-8
                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION DATA
APPLICATION NUMBER: US/08/495,209
FILING DATE: 27-JUN-1999
CLASSIFICATION: 530
                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/0
FILING DATE: 13-JUL-1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                 PatentIn R
                                                                                                                                                                                                                                                IBM PC
                                                                                                                             La Jolla
California
                                                                                                                                                                                                                                                               OPERATING SYSTEM:
                                                                                                                                                                                                         COMPUTER READABLE OF MEDIUM TYPE: Flo
                                                                                                                                                                                           92037
                                                                                           ADDRESSEE
                                                                                                                                                                                                                                                                                     SOFTWARE:
                                                                                                                                                                      COUNTRY:
                                                                                                               STREET:
                                                                                                                                  CITY: 1
STATE:
```

```
Gaps
                                                                                                                                                              ö
                                                                                                                                 72.0%; Score 14.4; DB 3; Length 45; 93.8%; Pred. No. 2.7e+03; Live 0; Mismatches 1; Indels
                                                                   DNA (genomic)
                                                                                                                                                                                        AAAGCTTCTTCAACA 19
SEQUENCE CHARACTERISTICS:
LENGTH: 45 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                              Conservative
                                             TOPOLOGY: linear AQLECULE TYPE: DNA
                                                     linear
                                                                                                                                                Similarity
                                                                                             I-SENSE: NO
                                                                                                                                                                                                                                                         RESULT 3
PCT-US96-10905-25,
                                                                                                            209-25
                                                                                                                                 Query March
Best Local
Matches
                                                                                                         US-08-49
                                                                                                                                                                                          ò
                                                                                                                                                                                                                g
```

Multispecific and Multivalent Antigen-Binding Polypeptide Molecules

cation PC/TUS9610905

Sequence 25, Appl GENERAL INFORMAT

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 6; Length 45;
27e+03;
                                                                                                                         C-DOS/MS-DOS
Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   72.0%; Score 14.4
93.8%; Pred. No. 27.
tive 0; Mismatche
                                                                                                                                                                              CT/US96/10905
                                                                                                                                                       CURRENT APPLICATION DAYS:
APPLICATION NUMBER: PCT/US96
FILING DATE: 26-JUN-A996
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 8/09
FILING DATE: 13-JUL-1993
PRIOR APPLICATION NUMBER: US 08/49
FILING DATE: 27-JUN-1995
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 45 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA (genomic)
                                                                                         py disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 93.8
Matches 15; Conservative
                                                                                                                                                                                                                                                                                                                                                                            : 45 base pairs
nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                            single
APPLICANT: THE SCRIP
TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
COMPUTER READABLE FOR
MEDIUM TYPE: FLOR
COMPUTER: IBM PC
COMPUTER: IBM PC
COMPUTER: IBM PC
                                                                                                                                                                                                                                                                                                                                                                                                                              linear
                                                                                                                                                                                                                                                                                                                                                                                                                              TOPOLOGICATION MOLECULE TYPE: DN
                                                                                                                                                                                                                                                                                                                                                                                                          STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; ANTI-SENSE: NO PCT-US96-10905-25
                                                                                                                                               SOFTWARE:
```

US-09-621-377B-21 ; Sequence 21, Application US/09621377B ; Patent No. 6534643 ; GENERAL INFORMATION: 4 AAAAGCTTCTTCAACA 19 45 AAGAGCTTCTTCAACA 30 셤 ઠે

ö

APPLICANT: BISBN, ANDREW
TITLE OF INVENTION: DROSOPHILA RECOMBINATION-ASSOCIATED PROTRIN AND METHODS FOR US:
FILE REPERENCE: 2567/14496-US1
CURRENT APPLICATION NUMBER: 0509/621,3778
PRIOR APPLICATION DATE: 2000-07-21
PRIOR APPLICATION NUMBER: US 60/144,736

'ELECOMMUNICATION INFORMATION:

NAME: Fitting, Thomas REGISTRATION NUMBER:

TELEFAX: 619-554-6312 INFORMATION FOR SEC ID NO:

TELEPHONE: